AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parenthesis, underlined text indicating insertions, and strike through and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) A high-density read-only optical disc including a Lead-In area, a data area, and a Lead-Out area, comprising:

the Lead-In area including a specific area having a straight pit-shaped line created by repeated marks and spaces such that the same tracking servo operation can be successively performed over the whole data area of the disc,

wherein either one of the mark or the space is recorded with a minimum pit length at least as small as 2T.

2. (Original) The disc as set forth in claim 1, wherein the specific area contains principal information of the high-density read-only optical disc.

3. (Previously Presented) The disc as set forth in claim 1, wherein the specific area is an area that would correspond in a high-density rewritable optical disc to a PIC (Permanent Information & Control data) area, for permanently storing principal disc information.

4. (Original) The disc as set forth in claim 3, wherein the high-density read-only optical disc is a BD-ROM (Blu-ray Disc ROM), and the high-density rewritable optical disc is a BD-RE (Blu-ray Disc Rewritable).

5. (Original) The disc as set forth in claim 1, wherein the mark and the space are repeatedly recorded in a predetermined recording period with different unique pit lengths according to a data value representing the recording period.

6. (Original) The disc as set forth in claim 5, wherein sum of pit lengths of each pair of the mark and the space is constant, irrespective of a representative data value of the recording period.

7. (Previously Presented) A method for reproducing data stored in an optical recording medium, comprising the steps of:

a) reading, via a same servo operation as is usable to read data recorded in a user information area, data recorded in a Lead-In area in the form of pre-pits having a minimum pit length at least as small as 2T and associated with a bi-phased HFM (High Frequency Modulated) groove; and

b) reproducing data recorded in the user information area by referring to the read data.

8. (Original) The method as set forth in claim 7, wherein the pre-pits are arranged in the form of a straight line.

9. (Cancelled)

10. (Currently Amended) The method as set forth in one of claim 7 9, wherein the servo operation is a DPD (Differential Phase Detection) method.

11. (Previously Presented) A method for recording data in an optical recording medium, comprising the steps of:

a) recording data in a Lead-In area in the form of pits having a minimum pit length at least as small as 2T and associated with a bi-phased HFM (High Frequency Modulated) groove such that resulting recorded data is readable by a same servo operation as is useable to read data recorded in a user data area; and

b) recording user data in the form of straight pits in the user information area.

12. (Original) The method as set forth in claim 11, wherein the pits are arranged in the form of a straight line.

13. (Currently Amended) An optical recording medium, comprising:

a Lead-In area in which data is recorded in the form of straight pre-pits having a minimum pit length at least as small as 2T and associated with a bi-phased HFM (High Frequency Modulated) groove; and

a user information area in which data is recorded in the form of straight pre-pits such that resulting recorded data is readable by a same servo operation as is usable to read data in the Lead-In area.

14. (Original) The medium as set forth in claim 13, wherein the pre-pits recorded in the Lead-In area are arranged in the form of a straight line.

15. (Original) The medium as set forth in claim 13, wherein the pre-pits recorded in the Lead-In area contain predetermined marks and spaces, and either one of the mark or the space is configured with a minimum pit length.

16. (Currently Amended) An apparatus for reproducing data stored in an optical recording medium, comprising:

a servo unit for reading data recorded in a Lead-In area in the form of straight pre-pits having a minimum pit length at least as small as 2T and associated with a bi-phased HFM (High Frequency Modulated) groove, and reading data using the same operation as used in the Lead-In area to read data recorded in a user information area in the form of straight pre-pits by referring to the data read from the Lead-In area; and

a control unit for controlling the servo unit.